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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/915,789A

DATE: 06/11/2002

TIME: 16:40:35

Input Set : A:\07039-219001.txt

Output Set: N:\CRF3\06112002\I915789A.raw

ENTERED

4 <110> APPLICANT: Chen, Lieping  
 6 <120> TITLE OF INVENTION: B7-H3 AND B7-H4, NOVEL IMMUNOREGULATORY  
 7 MOLECULES  
 9 <130> FILE REFERENCE: 07039-219001  
 11 <140> CURRENT APPLICATION NUMBER: US 09/915,789A  
 C--> 12 <141> CURRENT FILING DATE: 2002-06-04  
 14 <150> PRIOR APPLICATION NUMBER: US 60/220,991  
 15 <151> PRIOR FILING DATE: 2000-07-27  
 17 <160> NUMBER OF SEQ ID NOS: 23  
 19 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 21 <210> SEQ ID NO: 1  
 22 <211> LENGTH: 316  
 23 <212> TYPE: PRT  
 24 <213> ORGANISM: Homo sapiens  
 26 <400> SEQUENCE: 1  
 27 Met Leu Arg Arg Arg Gly Ser Pro Gly Met Gly Val His Val Gly Ala  
 28 1 5 10 15  
 29 Ala Leu Gly Ala Leu Trp Phe Cys Leu Thr Gly Ala Leu Glu Val Gln  
 30 20 25 30  
 31 Val Pro Glu Asp Pro Val Val Ala Leu Val Gly Thr Asp Ala Thr Leu  
 32 35 40 45  
 33 Cys Cys Ser Phe Ser Pro Glu Pro Gly Phe Ser Leu Ala Gln Leu Asn  
 34 50 55 60  
 35 Leu Ile Trp Gln Leu Thr Asp Thr Lys Gln Leu Val His Ser Phe Ala  
 36 65 70 75 80  
 37 Glu Gly Gln Asp Gln Gly Ser Ala Tyr Ala Asn Arg Thr Ala Leu Phe  
 38 85 90 95  
 39 Pro Asp Leu Leu Ala Gln Gly Asn Ala Ser Leu Arg Leu Gln Arg Val  
 40 100 105 110  
 41 Arg Val Ala Asp Glu Gly Ser Phe Thr Cys Phe Val Ser Ile Arg Asp  
 42 115 120 125  
 43 Phe Gly Ser Ala Ala Val Ser Leu Gln Val Ala Ala Pro Tyr Ser Lys  
 44 130 135 140  
 45 Pro Ser Met Thr Leu Glu Pro Asn Lys Asp Leu Arg Pro Gly Asp Thr  
 46 145 150 155 160  
 47 Val Thr Ile Thr Cys Ser Ser Tyr Arg Gly Tyr Pro Glu Ala Glu Val  
 48 165 170 175  
 49 Phe Trp Gln Asp Gly Gln Gly Val Pro Leu Thr Gly Asn Val Thr Thr  
 50 180 185 190  
 51 Ser Gln Met Ala Asn Glu Gln Gly Leu Phe Asp Val His Ser Val Leu  
 52 195 200 205  
 53 Arg Val Val Leu Gly Ala Asn Gly Thr Tyr Ser Cys Leu Val Arg Asn  
 54 210 215 220

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55 Pro Val Leu Gln Gln Asp Ala His Gly Ser Val Thr Ile Thr Gly Gln  
 56 225 230 235 240  
 57 Pro Met Thr Phe Pro Pro Glu Ala Leu Trp Val Thr Val Gly Leu Ser  
 58 245 250 255  
 59 Val Cys Leu Ile Ala Leu Leu Val Ala Leu Ala Phe Val Cys Trp Arg  
 60 260 265 270  
 61 Lys Ile Lys Gln Ser Cys Glu Glu Glu Asn Ala Gly Ala Glu Asp Gln  
 62 275 280 285  
 63 Asp Gly Glu Gly Glu Gly Ser Lys Thr Ala Leu Gln Pro Leu Lys His  
 64 290 295 300  
 65 Ser Asp Ser Lys Glu Asp Asp Gly Gln Glu Ile Ala  
 66 305 310 315  
 68 <210> SEQ ID NO: 2  
 69 <211> LENGTH: 951  
 70 <212> TYPE: DNA  
 71 <213> ORGANISM: Homo sapiens  
 73 <400> SEQUENCE: 2  
 74 atgctgcgtc ggccgggcag ccctggcatg ggtgtgcatt tgggtgcagc cctgggagca 60  
 75 ctgtggttct gcctcacagg agccctggag gtccaggatcc ctgaagaccc agtgggtggca 120  
 76 ctgggtggca ccgatgccac cctgtgtgc tccttctccc ctgagcctgg ctcaagcctg 180  
 77 gcacagctca acctcatctg gcagctgaca gataccaaac agctgggtgca cagctttgt 240  
 78 qagggccagg accaggcagc ccctatgc aaccgcacgg ccctttccc ggacctgt 300  
 79 gcacaggcga acgcattccct gaggctgcag cgctgtgc tgccggacga gggcagctc 360  
 80 acctgttccg tgagcatccg ggatttcggc agcgctgccc tcagcctgca ggtggccgt 420  
 81 ccctactcga agcccagcat gaccctggag cccaaacagg acctgcggcc aggggacacg 480  
 82 qtgaccatca cgtgttccag ctaccggggc taccctgagg ctgagggtt ctggcaggat 540  
 83 gggcagggtg tgccctgac tggcaacgtg accacgtcgc agatggccaa cgagcaggc 600  
 84 ttgtttatg tgcacagcgt cctgcgggtg gtgtgggtg cgaatggcac ctacagctgc 660  
 85 ctgggtgcga accccgtgtc gcagcaggat ggcacggct ctgtcaccat cacaggcag 720  
 86 ccctatgacat tccccccaga gcccctgtgg gtgaccgtgg ggctgtctgt ctgttcatt 780  
 87 qcaactgtgg tggccctggc ttctgtgtgc tggagaaaga tcaaacagag ctgtgaggag 840  
 88 gagaatgcag gagctgagga ccaggatggg gagggagaag gctccaagac agccctgcag 900  
 89 ccctctgaaac actctgacag caaagaagat gatggacaag aaatagcctg a 951  
 91 <210> SEQ ID NO: 3  
 92 <211> LENGTH: 316  
 93 <212> TYPE: PRT  
 94 <213> ORGANISM: Homo sapiens  
 96 <400> SEQUENCE: 3  
 97 Met Leu Arg Arg Arg Gly Ser Pro Gly Met Gly Val His Val Gly Ala  
 98 1 5 10 15  
 99 Ala Leu Gly Ala Leu Trp Phe Cys Leu Thr Gly Ala Leu Glu Val Gln  
 100 20 25 30  
 101 Val Pro Glu Asp Pro Val Val Ala Leu Val Gly Thr Asp Ala Thr Leu  
 102 35 40 45  
 103 Cys Cys Ser Phe Ser Pro Glu Pro Gly Phe Ser Leu Ala Gln Leu Asn  
 104 50 55 60  
 105 Leu Ile Trp Gln Leu Thr Asp Thr Lys Gln Leu Val His Ser Phe Ala  
 106 65 70 75 80  
 107 Glu Gly Gln Asp Gln Gly Ser Ala Tyr Ala Asn Arg Thr Ala Leu Phe

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108	85	90	95
109	Pro Asp Leu Leu Ala Gln Gly Asn Ala Ser Leu Arg Leu Gln Arg Val		
110	100	105	110
111	Arg Val Ala Asp Glu Gly Ser Phe Thr Cys Phe Val Ser Ile Arg Asp		
112	115	120	125
113	Phe Gly Ser Ala Ala Val Ser Leu Gln Val Ala Ala Pro Tyr Ser Lys		
114	130	135	140
115	Pro Ser Met Thr Leu Glu Pro Asn Lys Asp Leu Arg Pro Gly Asp Thr		
116	145	150	155
117	160	165	170
118	Val Thr Ile Thr Cys Pro Ser Tyr Arg Gly Tyr Pro Glu Ala Glu Val		
119	175	180	185
120	190	195	200
121	Ser Gln Met Ala Asn Glu Gln Gly Leu Phe Asp Val His Ser Val Leu		
122	205	210	215
123	Arg Val Val Leu Gly Ala Asn Gly Thr Tyr Ser Cys Leu Val Arg Asn		
124	220	225	230
125	Pro Val Leu Gln Gln Asp Ala His Gly Ser Val Thr Ile Thr Gly Gln		
126	240	245	250
127	255	260	265
128	Leu Val Cys Leu Ile Ala Leu Leu Val Ala Leu Ala Phe Val Cys Trp Arg		
129	270	275	280
130	285	290	295
131	Asp Gly Glu Gly Glu Ser Lys Thr Ala Leu Gln Pro Leu Lys His		
132	300	305	310
133	Ser Asp Ser Lys Glu Asp Asp Gly Gln Glu Ile Ala		
134	315	320	325
135	330	335	340
136	345	350	355
137	360	365	370
138	375	380	385
139	390	395	400
140	405	410	415
141	420	425	430
142	435	440	445
143	450	455	460
144	465	470	475
145	480	485	490
146	495	500	505
147	510	515	520
148	525	530	535
149	540	545	550
150	555	560	565
151	570	575	580
152	585	590	595
153	600	605	610
154	615	620	625
155	630	635	640
156	645	650	655
157	660	665	670
158	675	680	685

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159 cctctgaaac actctgacag caaagaagat gatggacaag aaatagcctg a 951  
 161 <210> SEQ ID NO: 5  
 162 <211> LENGTH: 282  
 163 <212> TYPE: PRT  
 164 <213> ORGANISM: Homo sapiens  
 166 <400> SEQUENCE: 5  
 167 Met Ala Ser Leu Gly Gln Ile Leu Phe Trp Ser Ile Ile Ser Ile Ile  
 168 1 5 10 15  
 169 Ile Ile Leu Ala Gly Ala Ile Ala Leu Ile Ile Gly Phe Gly Ile Ser  
 170 20 25 30  
 171 Gly Arg His Ser Ile Thr Val Thr Thr Val Ala Ser Ala Gly Asn Ile  
 172 35 40 45  
 173 Gly Glu Asp Gly Ile Leu Ser Cys Thr Phe Glu Pro Asp Ile Lys Leu  
 174 50 55 60  
 175 Ser Asp Ile Val Ile Gln Trp Leu Lys Glu Gly Val Leu Gly Leu Val  
 176 65 70 75 80  
 177 His Glu Phe Lys Glu Gly Lys Asp Glu Leu Ser Glu Gln Asp Glu Met  
 178 85 90 95  
 179 Phe Arg Gly Arg Thr Ala Val Phe Ala Asp Gln Val Ile Val Gly Asn  
 180 100 105 110  
 181 Ala Ser Leu Arg Leu Lys Asn Val Gln Leu Thr Asp Ala Gly Thr Tyr  
 182 115 120 125  
 183 Lys Cys Tyr Ile Ile Thr Ser Lys Gly Lys Gly Asn Ala Asn Leu Glu  
 184 130 135 140  
 185 Tyr Lys Thr Gly Ala Phe Ser Met Pro Glu Val Asn Val Asp Tyr Asn  
 186 145 150 155 160  
 187 Ala Ser Ser Glu Thr Leu Arg Cys Glu Ala Pro Arg Trp Phe Pro Gln  
 188 165 170 175  
 189 Pro Thr Val Val Trp Ala Ser Gln Val Asp Gln Gly Ala Asn Phe Ser  
 190 180 185 190  
 191 Glu Val Ser Asn Thr Ser Phe Glu Leu Asn Ser Glu Asn Val Thr Met  
 192 195 200 205  
 193 Lys Val Val Ser Val Leu Tyr Asn Val Thr Ile Asn Asn Thr Tyr Ser  
 194 210 215 220  
 195 Cys Met Ile Glu Asn Asp Ile Ala Lys Ala Thr Gly Asp Ile Lys Val  
 196 225 230 235 240  
 197 Thr Glu Ser Glu Ile Lys Arg Arg Ser His Leu Gln Leu Leu Asn Ser  
 198 245 250 255  
 199 Lys Ala Ser Leu Cys Val Ser Ser Phe Phe Ala Ile Ser Trp Ala Leu  
 200 260 265 270  
 201 Leu Pro Leu Ser Pro Tyr Leu Met Leu Lys  
 202 275 280  
 204 <210> SEQ ID NO: 6  
 205 <211> LENGTH: 849  
 206 <212> TYPE: DNA  
 207 <213> ORGANISM: Homo sapiens  
 209 <400> SEQUENCE: 6  
 210 atggcttccc tggggcagat cctcttctgg agcataatta gcatcatcat tattctggct 60  
 211 ggagcaattt cactcatcat tggcttttgtt atttcaggaa gacactccat cacagtca 120

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212	actgtcgctt	cagctggaa	cattggggag	gatgaaatcc	tgagctgcac	ttttgaacct	180									
213	gacatcaa	ac	tttctgat	at	cgtatacaa	tggctgaagg	240									
214	catgagttca	aagaaggcaa	agatgagctg	tcggagcagg	atgaaatgtt	cagaggccgg	300									
215	acagcagtgt	ttgctgatca	agtatagtt	ggcaatgcct	cttgcggct	gaaaaacgtg	360									
216	caactcacag	atgctggcac	ctacaaatgt	tatcatca	cttctaaagg	caaggggaat	420									
217	gctaacc	ttg	agtataaaac	tggagcctc	agcatgccgg	aagtgaatgt	480									
218	gccagctca	g	agac	ttgcg	gtgtgaggt	ccccatgg	540									
219	tg	ggcatccc	aagt	ttgacca	gggagccac	ttctcggaag	600									
220	ctg	actctg	agaatgtgac	catgaaggtt	gtgtctgtc	tctacaatgt	660									
221	aacacata	cctgtat	tgaaaatgac	attgcca	aaag	caacagg	720									
222	acagaatc	gg	agat	caaaaag	gcggagt	ctacagctgc	780									
223	tgtgtct	ttt	ctt	cttgc	catcagctgg	gcacttctgc	840									
224	ctaaaataa						849									
226	<210> SEQ ID NO: 7															
227	<211> LENGTH: 25															
228	<212> TYPE: PRT															
229	<213> ORGANISM: Homo sapiens															
231	<400> SEQUENCE: 7															
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233	1				5				10						15	
234	Leu	Met	Ser	Ala	Gln	Glu	Ser	Trp	Ala							
235				20			25									
237	<210> SEQ ID NO: 8															
238	<211> LENGTH: 5															
239	<212> TYPE: PRT															
240	<213> ORGANISM: Bos taurus															
242	<400> SEQUENCE: 8															
243	Lys	Phe	Glu	Arg	Gln											
244	1			5												
246	<210> SEQ ID NO: 9															
247	<211> LENGTH: 15															
248	<212> TYPE: PRT															
249	<213> ORGANISM: Homo sapiens															
251	<400> SEQUENCE: 9															
252	Met	Asp	Asp	Gln	Arg	Asp	Leu	Ile	Ser	Asn	Asn	Glu	Gln	Leu	Pro	
253	1				5				10						15	
255	<210> SEQ ID NO: 10															
256	<211> LENGTH: 4															
257	<212> TYPE: PRT															
258	<213> ORGANISM: Rattus norvegicus															
260	<400> SEQUENCE: 10															
261	Lys	Asp	Glu	Leu												
262	1															
264	<210> SEQ ID NO: 11															
265	<211> LENGTH: 241															
266	<212> TYPE: PRT															
267	<213> ORGANISM: Homo sapiens															
269	<400> SEQUENCE: 11															
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**VERIFICATION SUMMARY**

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Input Set : **A:\07039-219001.txt**

Output Set: **N:\CRF3\06112002\I915789A.raw**

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date